AMENDMENTS TO THE CLAIMS

Claim 1 (Currently amended):

Ball screw actuator for aircraft control surfaces, comprising:

a lead screw having a thread;

motor means to set the screw in rotation about its own longitudinal axis;

a primary body connected to a control surface and engaged on the lead

screw by means of a plurality of balls movable on the thread of said screw;

a secondary body connected to the primary body and having an auxiliary

portion provided with an engagement surface facing the thread of the control

screw at a predetermined distance; the engagement surface being shaped to

engage the thread of said lead screw;

characterized in that wherein it further comprises means for de-coupling the secondary body from the auxiliary portion in the rotation motion about the longitudinal axis radially interposed between said secondary body and said auxiliary portion; with the secondary body de-coupled from the auxiliary portion, said auxiliary portion being free to rotate together with the screw with respect to the secondary body upon any rotation of the screw.

Claim 2 (Original):

An actuator as claimed in claim 1, wherein the means for de-coupling the secondary body from the auxiliary portion comprising at least a weakened portion for connecting the secondary body and said auxiliary portion.

Claim 3 (Previously presented):

An actuator as claimed in claim 2, wherein the means to de-couple the secondary body from the auxiliary portion comprise friction reducing means radially interposed between said secondary body and said auxiliary portion.

Claim 4 (Original):

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An actuator as claimed in claim 1, wherein the auxiliary portion has a tubular shape coaxial to the lead screw.

Claim 5 (Original):

An actuator as claimed in claim 4, wherein the engagement surface of the auxiliary portion with tubular shape internally has an inverse thread adapted to engage the thread of the lead screw.

Claim 6 (Original):

An actuator as claimed in claim 2, wherein the weakened connecting portion is a pin inserted in the auxiliary portion and in the secondary body.

Claim 7 (Original):

An actuator as claimed in claim 3, wherein the friction reducing means have at least a bearing.

Claim 8 (Currently amended):

An actuator as claimed in claim 1 claim 3, wherein the secondary body coaxially surrounds the auxiliary portion.

Claim 9 (Original):

An actuator as claimed in claim 8, wherein the friction reducing means have at least a bearing interposed between the secondary body and the auxiliary portion.

Claim 10 (Original):

An actuator as claimed in claim 8, wherein the friction reducing means have two bearings set side by side and interposed between the secondary body and the auxiliary portion.

Claim 11 (Original):

An actuator as claimed in claim 8, wherein the weakened connecting portion is a pin inserted in the secondary body and in the auxiliary portion.

Claim 12 (Original):

An actuator as claimed in claim 8, wherein the secondary body has:

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a first tubular body radially distanced from the auxiliary portion, to define a containment chamber for at least a bearing defining said friction reducing means;

a second tubular body coaxial and integral with the first and radially approached to the auxiliary portion.

Claim 13 (Original):

An actuator as claimed in claim 12, wherein the weakened connecting portion is a pin inserted into the second tubular body of the secondary body and into the auxiliary portion.

Claim 14 (Original):

An actuator as claimed in claim 1, wherein at least the engagement surface of said auxiliary portion is made of material with high friction coefficient.

Claim 15 (Currently amended):

An actuator as claimed in claim 1 wherein at least the engagement surface of said auxiliary portion is made of <u>frictionless</u> <u>low friction</u> material.

Claim 16 (Original):

An actuator as claimed in claim 1, wherein the primary body is directly connected to the secondary body.

Claim 17 (Original):

An actuator as claimed in claim 16, wherein the secondary body is connected to the primary body about an axis orthogonal to the longitudinal axis of the lead screw.

Claim 18 (Original):

An actuator as claimed in claim 1, wherein the primary body forms a single body with the secondary body.

Claim 19 (Original):

An actuator as claimed in claim 1, wherein the secondary body is directly connected to the control surface.

Claim 20 (New):

Ball screw actuator for aircraft control surfaces, comprising:

a lead screw having a thread;

motor means to set the screw in rotation about its own longitudinal axis;

a primary body connected to a control surface and engaged on the lead

screw by means of a plurality of balls movable on the thread of said screw;

a secondary body connected to the primary body and having an auxiliary

portion provided with an engagement surface facing the thread of the control

screw at a predetermined distance; the engagement surface being shaped to

engage the thread of said lead screw; the secondary body being engageable

to the screw only through the engagement surface of said auxiliary portion;

wherein it further comprises means for de-coupling the secondary body from

the auxiliary portion in the rotation motion about the longitudinal axis radially

interposed between said secondary body and said auxiliary portion;

with the secondary body de-coupled from the auxiliary portion, said auxiliary

portion being free to rotate together with the screw with respect to the

secondary body upon any rotation of the screw.

Claim 21 (New):

Ball screw actuator for aircraft control surfaces, comprising:

a lead screw having a thread;

motor means to set the screw in rotation about its own longitudinal axis;

a primary body connected to a control surface and engaged on the lead

screw by means of a plurality of balls movable on the thread of said screw;

a secondary body connected to the primary body and having an auxiliary

portion provided with an engagement surface facing the thread of the control

screw at a predetermined distance; the engagement surface being shaped to

engage the thread of said lead screw; the auxiliary portion being integral with

the secondary body along the longitudinal axis; the secondary body being

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engageable to the screw only through the engagement surface of said auxiliary portion;

wherein it further comprises means for de-coupling the secondary body from the auxiliary portion in the rotation motion about the longitudinal axis radially interposed between said secondary body and said auxiliary portion;

with the secondary body de-coupled from the auxiliary portion, said auxiliary portion being free to rotate together with the screw with respect to the secondary body upon any rotation of the screw, preventing any axial motion of said secondary body.